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Antistatic fibre - made of fibre-forming polymer and semiconducting barium titanate

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
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Priority Applications (No Type Date): JP 83232414 A 19831209

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 60126310 A			3			

Abstract (Basic): JP 60126310 A

The antistatic fibre is composed of fibre-forming polymer and a ceramic semi-conductor of barium titanate series with a specific resistivity of up to 1000 ohm.cm. The barium titanate ceramic is made by sintering the mixture of high purity barium titanate and a trivalent element such as La, Ce, Sm, or a pentavalent element such as Nb, Ta, Sn; pref. La and Nb are used.

The amount of the added element is 0.1-1.0 mol.% of the ceramic. The ceramic semi-conductor of barium titanate series is used pref. in amount of 30-80 wt.% of the fibre forming polymer.

The ceramic semi-conductor particles are favourably incorporated in the fibre forming polymer by mixed or composite spinning.

ADVANTAGE - The fibre is subject to less colouring as compared with a conventional fibre including oxide of Sn, Zn etc.

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Derwent Class: A60; F01; L03

International Patent Class (Additional): D01F-001/09